(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/019629 A1

(51) International Patent Classification[7]: H04Q 7/20

(21) International Application Number:
PCT/US2003/026016

(22) International Filing Date: 20 August 2003 (20.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/405,355 22 August 2002 (22.08.2002) US

(71) Applicants *(for all designated States except US)*: **ATLINKS USA, INC.** [US/US]; 10030 N. Meridan Street, INH-340, Indianapolis, IN 46290-1024 (US). **RIEDL, Wilhelm, Ernst** [US/US]; 872 Garonne Terrace #2D, Indianapolis, IN 46250 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **KECHKAYLO, David, Lee** [US/US]; 3816 Constitution Drive, Carmel, IN 46032 (US). **LAI, Hung, Chi** [US/US]; 8949 Autumn Wood Drive, Indianapolis, IN 46250 (US).

(74) Agents: **TRIPOLI, Joseph, S.** et al.; c/o Thomson Licensing Inc., 2 Independence Way Suite 2, Princeton, NJ 08540 (US).

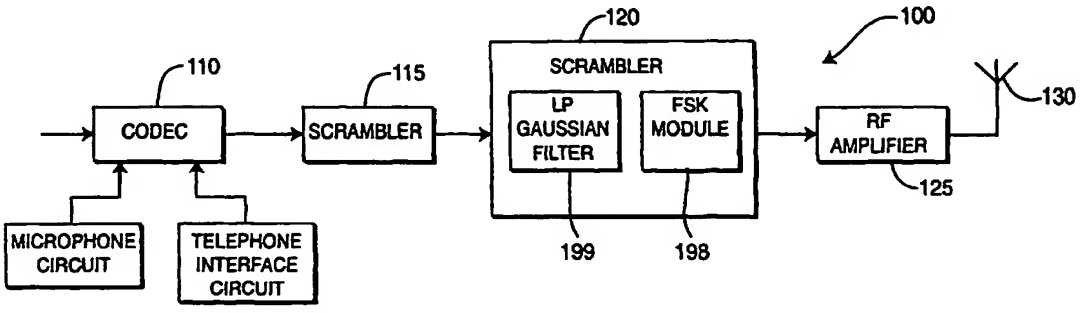
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LOW-COST HIGH-POWER DIGITAL CORDLESS TELEPHONE ARCHITECTURE



(57) Abstract: There is provided a digital, non-spread spectrum, cordless telephone that includes a baseband circuit (500 and a transceiver. The baseband circuit (500) consists of nonapplication specific circuitry (110). The non-application specific circuitry (110) includes Continuous Variable Slope Delta Modulation (CVSD) circuitry for encoding and decoding voice data. The transceiver has Frequency Division Duplex circuitry for transmitting the voice data at a Radio Frequency (RF) transmit power greater than Odbm.

WO 2004/019629 A1